

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L3	1	("7092338").PN.	US-PGPUB; USPAT	OR	OFF	2006/09/30 11:59
L4	43302	"369".clas.	US-PGPUB; USPAT	OR	OFF	2006/09/30 12:18
L5	11	I4 and (shock adj detector)	US-PGPUB; USPAT	OR	ON	2006/09/30 12:23
L6	0	I5 and eigenvalues	US-PGPUB; USPAT	OR	ON	2006/09/30 12:22
L7	0	I5 and (bandpass (band adj pass))	US-PGPUB; USPAT	OR	ON	2006/09/30 12:22
L8	235	I4 and ((jump\$4 interrupt\$6 shock) adj detect\$4)	US-PGPUB; USPAT	OR	ON	2006/09/30 12:34
L9	0	I8 and eigenvalue	US-PGPUB; USPAT	OR	ON	2006/09/30 12:25
L10	0	I8 and ((eigen adj value) eigenvalue)	US-PGPUB; USPAT	OR	ON	2006/09/30 12:35
L11	1	I8 and hysteresis	US-PGPUB; USPAT	OR	ON	2006/09/30 12:26
L12	0	I4 and ((jump\$4 interrupt\$6 shock) adj detect\$4) and ((track\$4 cent\$4 and focus\$4) adj error) and ((sub adj beam) with sum) and ((rf ripple) adj signal) and ((revolution rotation frequency) with spindle)	US-PGPUB; USPAT	OR	ON	2006/09/30 12:31
L13	0	I4 and ((jump\$4 interrupt\$6 shock) adj detect\$4) and ((track\$4 and focus\$4) with error) and (((sub adj beam) subbeam) with sum) and ((rf ripple) adj signal) and ((revolution rotation frequency) with spindle)	US-PGPUB; USPAT	OR	ON	2006/09/30 12:34
L14	0	I4 and ((jump\$4 interrupt\$6 shock disturbance) adj detect\$4) and ((track\$4 and focus\$4) with error) and (((sub adj beam) subbeam) with sum) and ((rf ripple) adj signal) and ((revolution rotation frequency) with spindle)	US-PGPUB; USPAT	OR	ON	2006/09/30 12:37
L15	364	I4 and ((jump\$4 interrupt\$6 shock disturbance) adj detect\$4)	US-PGPUB; USPAT	OR	ON	2006/09/30 13:12
L16	0	I15 and ((eigen adj value) eigenvalue)	US-PGPUB; USPAT	OR	ON	2006/09/30 12:35
L17	5	I15 and (hysteresis)	US-PGPUB; USPAT	OR	ON	2006/09/30 12:35

## EAST Search History

L18	0	I4 and ((jump\$4 interrupt\$6 shock disturbance tilt skew\$4 inclinat\$4) adj detect\$4) and ((track\$4 and focus\$4) with error) and (((sub adj beam) subbeam) with sum) and ((rf ripple) adj signal) and ((revolution rotation frequency) with spindle)	US-PGPUB; USPAT	OR	ON	2006/09/30 12:38
L19	1	((jump\$4 interrupt\$6 shock disturbance tilt skew\$4 inclinat\$4) adj detect\$4) and ((track\$4 and focus\$4) with error) and (((sub adj beam) subbeam) with sum) and ((rf ripple) adj signal) and ((revolution rotation frequency) with spindle)	US-PGPUB; USPAT	OR	ON	2006/09/30 12:39
L20	1	((jump\$4 interrupt\$6 shock disturbance tilt skew\$4 inclinat\$4) adj detect\$4) and ((track\$4 and focus\$4) with error) and (((sub adj beam) subbeam) with (total sum)) and ((rf ripple) adj signal) and ((revolution rotation frequency) with spindle)	US-PGPUB; USPAT	OR	ON	2006/09/30 12:39
L21	4	I15 and (three adj signals)	US-PGPUB; USPAT	OR	ON	2006/09/30 12:42
L22	253	I4 and ((interrupt\$6 shock disturbance) adj detect\$4)	US-PGPUB; USPAT	OR	ON	2006/09/30 13:25
L23	359	I4 and ((interrupt\$6 shock disturbance vibrat\$5) adj detect\$4)	US-PGPUB; USPAT	OR	ON	2006/09/30 13:25
L24	437	I4 and ((interrupt\$6 shock disturbance vibrat\$5) adj (sens\$5 detect\$4))	US-PGPUB; USPAT	OR	ON	2006/09/30 13:34
L25	828	I4 and ((interrupt\$6 shock disturbance vibrat\$5 tilt\$4) adj (sens\$5 detect\$4))	US-PGPUB; USPAT	OR	ON	2006/09/30 13:31
L26	437	I4 and ((interrupt\$6 shock disturbance vibrat\$5) adj (sens\$5 detect\$4))	US-PGPUB; USPAT	OR	ON	2006/09/30 13:31
L27	0	I26 and (three with (enabled active))	US-PGPUB; USPAT	OR	ON	2006/09/30 13:32
L28	0	I26 and ("three" with (enabled active))	US-PGPUB; USPAT	OR	ON	2006/09/30 13:32
L29	0	I26 and (((first and second and third) "three") with (enabled active))	US-PGPUB; USPAT	OR	ON	2006/09/30 13:34

## EAST Search History

L30	21205	((interrupt\$6 shock disturbance vibrat\$5) adj (sens\$5 detect\$4))	US-PGPUB; USPAT	OR	ON	2006/09/30 13:34
L31	682	I30 and (((first and second and third) "three") with (enabled active))	US-PGPUB; USPAT	OR	ON	2006/09/30 13:39
L32	97	I31 and (vibrat\$4 shock disturbance interrupt\$4).ti.	US-PGPUB; USPAT	OR	ON	2006/09/30 13:38
L33	63	I31 and (vibrat\$4 shock disturbance).ti.	US-PGPUB; USPAT	OR	ON	2006/09/30 13:39
L34	2894	I30 and (((first and second and third) "three" ("all" signal)) with (enabled active))	US-PGPUB; USPAT	OR	ON	2006/09/30 13:48
L35	281	I34 and (vibrat\$4 shock disturbance).ti.	US-PGPUB; USPAT	OR	ON	2006/09/30 13:39
L36	682	I30 and (((first and second and third) "three" ("all" adj signal)) with (enabled active))	US-PGPUB; USPAT	OR	ON	2006/09/30 13:53
L37	271	I4 and (interrupt\$4 with (recording writing)) same (stor\$4 with data)	US-PGPUB; USPAT	OR	ON	2006/09/30 13:56
L38	35	I4 and (interrupt\$4 with (recording writing)) same ((block and stor\$4) with data)	US-PGPUB; USPAT	OR	ON	2006/09/30 15:07
L39	3	I38 and shock	US-PGPUB; USPAT	OR	ON	2006/09/30 14:06
L40	5	I38 and (vibrat\$4 shock disturbance)	US-PGPUB; USPAT	OR	ON	2006/09/30 14:06
L41	1	("7023781").PN.	US-PGPUB; USPAT	OR	OFF	2006/09/30 14:37
L42	1	("6775211").PN.	US-PGPUB; USPAT	OR	OFF	2006/09/30 15:05
L43	1770	I4 and ((interrupt\$4 stop\$4 disabl\$5) near2 (recording writing)) and (shock adj detect\$4 signal)	US-PGPUB; USPAT	OR	ON	2006/09/30 15:08
L44	855	I4 and (((interrupt\$4 stop\$4 disabl\$5) near2 (recording writing)) same (shock adj detect\$4 signal))	US-PGPUB; USPAT	OR	ON	2006/09/30 15:11
L45	9	I4 and (((interrupt\$4 stop\$4 disabl\$5) near2 (recording writing)) same (shock adj (detect\$4 signal))))	US-PGPUB; USPAT	OR	ON	2006/09/30 15:45
L46	0	(interrupt adj mode) with ("servo-loop" adj gain)	US-PGPUB; USPAT	OR	OFF	2006/09/30 15:35
L47	0	(interrupt\$4) with ("servo-loop" adj gain)	US-PGPUB; USPAT	OR	OFF	2006/09/30 15:35

## EAST Search History

L48	0	(interrupt\$4) same ("servo-loop" adj gain)	US-PGPUB; USPAT	OR	OFF	2006/09/30 15:35
L49	3	(interrupt\$4) with (servo adj gain)	US-PGPUB; USPAT	OR	OFF	2006/09/30 15:35
L50	265	(shock with ((frequency revolution rotat\$4) with spindle))	US-PGPUB; USPAT	OR	ON	2006/09/30 15:47
L51	26	I4 and I50	US-PGPUB; USPAT	OR	ON	2006/09/30 15:47
L52	0	I51 and (eigenvalue (eigen adj value))	US-PGPUB; USPAT	OR	ON	2006/09/30 15:47
L53	1	(shock with ((frequency revolution rotat\$4) with spindle)) and (eigenvalue (eigen adj value))	US-PGPUB; USPAT	OR	ON	2006/09/30 15:48
S1	1	("20040069962").PN.	US-PGPUB; USPAT	OR	OFF	2006/06/08 09:28
S2	42050	"369".cls.	US-PGPUB; USPAT	OR	OFF	2006/06/06 09:39
S3	214	369/53.18.ccls.	US-PGPUB; USPAT	OR	OFF	2006/06/08 12:42
S4	999	369/44.32.ccls.	US-PGPUB; USPAT	OR	OFF	2006/06/08 09:30
S5	15	(S3 S4) and hysteresis	US-PGPUB; USPAT	OR	OFF	2006/06/08 12:39
S6	3	(S3 S4) and hysteresis and buffer	US-PGPUB; USPAT	OR	OFF	2006/06/08 12:42
S7	1	(S3 S4) and hysteresis and buffer and revolution	US-PGPUB; USPAT	OR	OFF	2006/06/08 12:39
S8	1	(S3 S4) and hysteresis and buffer and revolution	US-PGPUB; USPAT	OR	ON	2006/06/08 12:39
S9	0	(S3 S4) and hysteresis and buffer and revolution and band-pass	US-PGPUB; USPAT	OR	ON	2006/06/08 12:39
S10	0	(S3 S4) and hysteresis and buffer and revolution and low-pass	US-PGPUB; USPAT	OR	ON	2006/06/08 12:39
S11	0	(S3 S4) and hysteresis and buffer and revolution and ((band low) adj pass)	US-PGPUB; USPAT	OR	ON	2006/06/08 12:40
S12	0	(S3 S4) and hysteresis and buffer and revolution and filter	US-PGPUB; USPAT	OR	ON	2006/06/08 12:40
S13	3	(S3 S4) and hysteresis and ((band low) adj pass).	US-PGPUB; USPAT	OR	OFF	2006/06/08 12:42
S14	0	(S3 S4) and hysteresis and ((band and low) adj pass)	US-PGPUB; USPAT	OR	OFF	2006/06/08 12:42
S15	191	369/53.18.ccls. and block	US-PGPUB; USPAT	OR	ON	2006/06/08 12:59

## EAST Search History

S16	3	(S3 S4 S5) and eigenvalue	US-PGPUB; USPAT	OR	ON	2006/06/08 13:17
S17	0	(S13 S16) and (push adj pull) and (spindle adj motor)	US-PGPUB; USPAT	OR	ON	2006/06/08 13:26
S18	4	(S13 S16) and (spindle adj motor)	US-PGPUB; USPAT	OR	ON	2006/06/08 14:28
S19	1	(S13 S16) and (push adj pull)	US-PGPUB; USPAT	OR	ON	2006/06/08 13:26
S20	1	("6219317").PN.	US-PGPUB; USPAT	OR	OFF	2006/06/08 14:28
S21	11	(US-20040069962-\$ or US-20030161238-\$ or US-20030058768-\$).did. or (US-5350910-\$ or US-5963516-\$ or US-6219317-\$ or US-5473587-\$ or US-5202872-\$ or US-6345019-\$ or US-5459705-\$ or US-5995460-\$).did.	US-PGPUB; USPAT	OR	OFF	2006/06/09 12:46
S22	4	S21 and eigen\$8	US-PGPUB; USPAT	OR	ON	2006/06/09 12:56
S23	1	S21 and eigen\$8 and hysteresis	US-PGPUB; USPAT	OR	ON	2006/06/09 12:57
S24	1	S21 and ((value proport\$7 ratio\$3) near3 hysteresis)	US-PGPUB; USPAT	OR	ON	2006/06/09 12:57